# Digital
# FM Stereo Modulator

**Multi-Channel PLL Synthesizer**

## MODEL : EFM-01
## OWNER'S MANUAL

## FEATURE

- High reliability PLL synthesized tuning system
- Provide 8 carrier frequencies
- High isolation from nonessential frequencies
- Compact and light, Can be placed behind the radio inside the dashboard.

## SPECIFICATIONS

| | | |
|---|---|---|
| POWER SUPPLY | DC 12V | ≒50mA |
| CARRIER FREQUENCY | 88.5MHz-89.9MHz | 8 step by 0.2MHz |
| TUNING SYSTEM | PLL synthesize | |
| INPUT IMPEDANCE | ≒10KΩ | AUDIO INPUT L&R |
| INPUT TERMINAL | RCA JACK | L&R |
| FUSE | 250V 1A | Tube type, 6 × 30mm |
| FROM ANT CABLE | RCA jack | Coaxial |
| TO TUNER CABLE | RCA plug | Coaxial |

■ Design and specifications are subject to change without notice.

**WARNING** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK.
DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

**CAUTION** TO PREVENT ELECTRICS SHOCK MATCH POLRAITY OF
POWER SOURCE, USE DC12V OF CAR BATTERY ONLY.

## IMPORTANT SAFETY INSTRUCTIONS

This unit is fully transistorized and does not contain any parts
that can be repaired by the user.
DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED
TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE
PERSONNEL ONLY.

**1. Read owner' s manual**

After unpacking this unit read the owner' s manual
carefully, and follow all the operating and other instructions.

**2. Power sources**

This product should be operated only from the type of power source
indicated on the marking label. If you are not sure of the type of
power supply in your circumference, consult your product dealer.

**3. Heat**

The product should be situated away from heat sources such as radiators, heat register or other products (including amplifiers) that produce heat.

**4. Water and Moisture**

Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub in a wet basement or near a swimming pool and the lake.

**5. Object and Liquid entry**

Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spil liquid of any kind on the product.

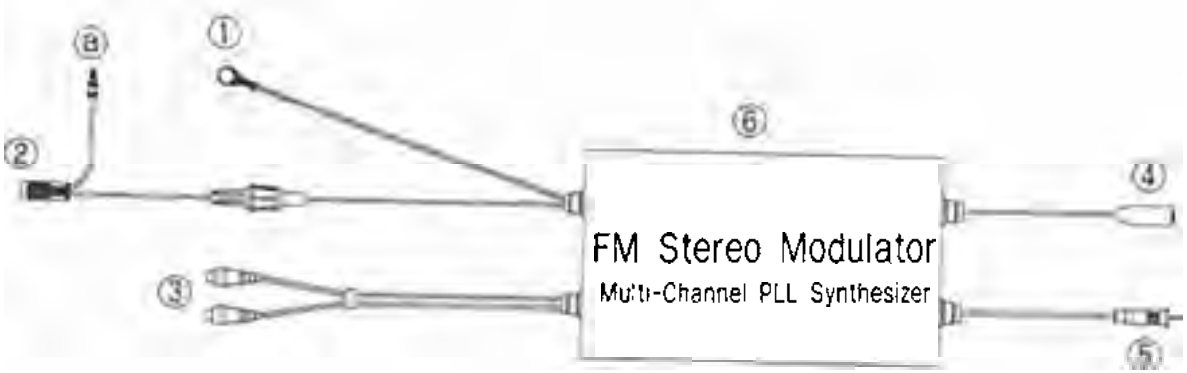
**6. Burden**

Do not place a heavy object on or step on the product. The object may fall, causing serious personal injury and serious damage to the product.

**7. Connecting**

When you connect the product to other equipment, turn off the power and unplug all of the equipment from the outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner` s manual of the other equipment carefully and follow the instructions when marking any connections.

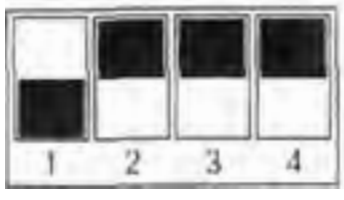
# CONNECTING TO CAR FM RADIO SYSTEM



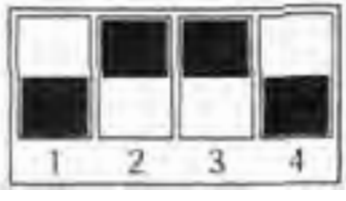

1. Connect GROUND terminal(①). then connect the terminal of fuse cable(②) to DC 12V which to be supplied when you turn on your instruments.
   Cut and delete terminal(ⓐ)if you do not use it. It may cause eletric short if you leave as it is, so you may be exposed to any risk or accidents.
2. Connect AUDIO INPUT jack(③)from audio output jack of audio sources. VCR, CD player, DVD, MD, etc,. This unit is prepared for stereo sound. white color jack is for LEFT sound and red color jack is for RIGHT sound.
3. Connect FROM ANTENNA input jack(④)from an outside FM antenna.
4. Connect TO TUNER antenna plug(⑤)to antenna input jack of FM tuner on your car.
5. Set this unit(⑥)behind the FM radio inside the dashboard.

# HOW TO SET FM FREQUENCY

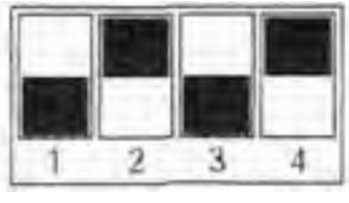
You can set the FM carrier frequency which can be use in your car FM tuner by setting DIP switch that it is located on bottom side.
How to set FM carrier frequencies are as follows.




88.5 MHz

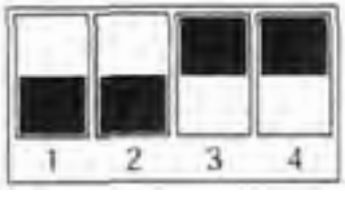



88.7 MHz

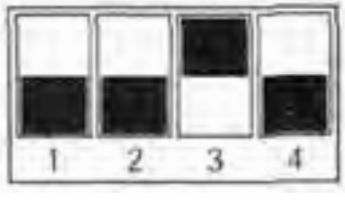



88.9 MHz

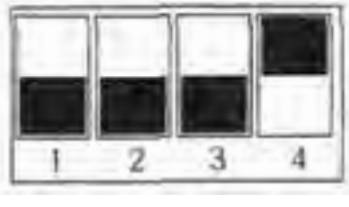
89.1 MHz



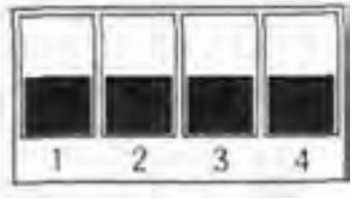

89.3 MHz




89.5 MHz




89.7 MHz




89.9 MHz

**※ Pin 1 is not available.**